

## SEQUENCE LISTING

<110> Hoechst Schering AgrEvo GmbH

<120> Nucleic acid molecules encoding a  $\beta$ -amylase, plants which synthesize a modified starch, the generation of the plants, their use, and the modified starch

<130> AGR 1998/M 224

<150> DE 19836099.1

<151> 1998-07-31

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<170> PatentIn Ver. 2.1

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Asp Gln Trp Gly Arg Arg Asn Phe Glu Tyr Val Ser Leu Gly Cys Asp

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Pro Ser Tyr Pro Glu Lys Asp Gly Val Trp Lys Phe Pro Gly Ile Gly			
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420

425

430

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His Phe Val His Ile Thr Gln Pro Leu Val Gln Glu Ala Ala Ala Ala  
565 570 575

Leu Met His

## Abstract

**Nucl ic acid molecules encoding a  $\beta$ -amylas , plants which synthesize a modified starch, the generation of the plants, their use, and the modified starch**

The present invention relates to nucleic acid molecules which encode a protein with the activity of a potato  $\beta$ -amylase and to processes for the generation of transgenic plant cells and plants which synthesize a modified starch. Moreover, the present invention relates to vectors and host cells comprising the nucleic acid molecules according to the invention, to the plant cells and plants originating from the processes according to the invention, to the starch synthesized by the plant cells and plants according to the invention, and to processes for the production of this starch.